

Amendments to the Specification:

Please amend the paragraph at page 2 paragraph [0011], as follows:

This object is achieved according to the invention by a method for storing plant process signals wherein, depending ~~of~~on the current operating state of the plant, a compression method matched to the current operating state is applied to the set of process signals and a compressed process signal set thereby determined is stored.

Please amend the paragraph at page 5 paragraph [0031], as follows:

In another embodiment of the invention, the compression method involves examining at least one of the process signals to ascertain whether the process signal has remained within its amplitude band since it was ~~stored~~ last stored and how long ago it was last stored, the process signal only being stored if it was last stored longer than a specified time interval beforehand.